



FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: SYNGEN-06067	Serial No.: 09/894,423		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)				Applicant: Ronald H. Chiarello <i>et al.</i>			
(37 CFR § 1.98(b))				Filing Date: 6/28/01	Group Art Unit: 1636		
U.S. PATENT DOCUMENTS							
Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
CO	1	5,231,191	7/27/93	Woo <i>et al.</i>	549	220	10/22/90
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)							
CO	2	Caruthers <i>et al.</i> , "Chemical Synthesis of Deoxyoligonucleotides by the Phosphoramidite Method," <i>Methods in Enzymology</i> 154:287-313 (1987)					
	3	Doly <i>et al.</i> , "Strand Separation and Specific Recombination in Deoxyribonucleic Acids: Physical Chemicals Studies," <i>Proc. Natl. Acad. Sci. USA</i> 46:461 (1960)					
	4	Horvath <i>et al.</i> , "An Automated DNA Synthesizer Employing Deoxynucleoside 3'-Phosphoramidites," <i>Methods in Enzymology</i> 154:314-326 (1987)					
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	6	Igloi, "Strategies for introducing non-radioactive labels during the automated sequence analysis of nucleic acids," <i>ELB Electronic Journal of Biotechnology</i> 1(1):1-8 (1998)					
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	13	Rios, "Phosphoramidite Chemistry," sonhouse.hunter.cuny.edu/facilities/sequence/phoschem.html					
	14	Sinha <i>et al.</i> , "The preparation and application of functionalised synthetic oligonucleotides: III. Use of H-phosphonate derivatives of protected amino-hexanol and mercapto-propanol or-hexanol," <i>Nucleic Acids Research</i> 16(6):2659-2669 (1988)					
↓	15	Wilkinson, "Oligo Factory, A Profile of Automated Nucleic Acid Synthesizers," <i>The Scientist</i> 13(21):18 (1999) www.the-scientist.com/yr1999/oct/profile1_991025.html					
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Examiner: <i>[Signature]</i>				Date Considered: 6/15/05			
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SUPPLEMENTAL INFORMATION
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Patent and Trademark Office

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(37 CFR § 1.98(b))

U.S. PATENT DOCUMENTS

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	3	4,415,732	11/15/83	Caruthers <i>et al.</i>	536	27	03/27/81
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	8	5,278,302	01/11/94	Caruthers <i>et al.</i>	536	24.5	11/18/91
↓	9	5,453,496	09/26/95	Caruthers <i>et al.</i>	536	24.5	10/15/93

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CD	10	T. Maniatis <i>et al.</i> , <i>Molecular Cloning</i> , Cold Spring Harbor Laboratory, 188-190 (1982)
	11	R. J. Slater, "The Extraction and Fractionation of RNA," In: <i>Techniques in Molecular Biology</i> , J.M. Walker and W. Gaastra, eds., Macmillan, NY15, 113-120 (1983)
	12	P. Chomczynski and N. Sacchi, "Single-step Method of RNA Isolation by Acid Guanidium Thiocyanate-Phenol-Chloroform Extraction," <i>Anal. Biochem.</i> 162:156-159 (1987)
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	14	K.-P. Stengel and W. Pfeiderer, "Improved Synthesis of Oligodeoxyribonucleotides," <i>Tetrahed. Lett.</i> , 31(18):2549-2552 (1990)
•	15	B.S. Sproat and D.M. Brown, "A New Linkage For Solid Phase Synthesis of Oligodeoxyribonucleotides," <i>Nucleic Acids Res.</i> 13:8, 2979-2987 (1985)
	16	Wallace <i>et al.</i> , "Application of Synthetic Oligonucleotides to the Diagnosis of Human Genetic Diseases," <i>Biochimie</i> 67:755-762 (1985)
	17	Studencki and Wallace, "Allele-Specific Hybridization Using Oligonucleotide Probes of Very High Specific Activity: Discrimination of the Human β^A - and β^B -Globin Genes," <i>DNA</i> 3(1): 7-15 (1984)
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	19	Guide to Molecular Cloning Techniques, Ed. S.L. Berger and A.R. Kimmel, <i>Methods in Enzymology</i> 152:401 (1987)
	20	G. Alvarado-Urbina <i>et al.</i> , "Automated Synthesis of Gene Fragments," <i>Science</i> 214:270-274 (1981)
	21	Operating Manual, "cDNA Synthesis and Cloning," Pharmacia Biotech (1994)
	22	Catalog, "Nucleic Acid: purification, detection and labeling," Promega Corporation
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↓	24	Hansen and Braman, "Isolation of Pure RNA from Micro Amounts of Tissue or Cells in 30 Minutes," <i>Stratagen Cloning Systems</i> , 6:50
	25	Catalog, "Nucleic Acid Isolation and Purification," U.S.B., pp.134-149

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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
✓	26	Catalog, "Proteins & Genes," Novagen			
	27	G.M. Bonora <i>et al.</i> , "Structure of N-Tert-Butyloxycarbonyl-D-leucyl-L-phenylalanylethanolamide," <i>J. Biol. Chem.</i> 258:14725-14732 (1983)			
	28	Sieber and Iselin, "Selective acidolytische Spaltung von Aralkyloxycarbonyl-Aminoschutzgruppen," <i>Helv. Chim. Acta</i> 51:614-622 (1968)			
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	34	E. Palomino <i>et al.</i> , "Synthesis and in Vitro Evaluation of Some Modified 4-Thiopyrimidine Nucleosides for Prevention or Reversal of AIDS-Associated Neurological Disorders," <i>J. Med. Chem.</i> 33:258-263 (1990)			
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	36	Webb and Matteucci, "Hybridization triggered cross-linking of deoxynucleotides," <i>Nucleic Acids Research</i> 14(19):7661-7674 (1986)			
✓	37	Beaucage and Caruthers, "Deoxynucleoside Phosphoramidites-A New Class of Key Intermediates for Deoxypolynucleotide Synthesis," <i>Tetrahed. Lett.</i> , 22(20):1859-1862 (1981)			
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